



## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/720,933  
Source: Pt/09  
Date Processed by STIC: 5/15/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/720,933

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ✓ Use of <220>      Sequence(s) 10-16 missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/720,933

DATE: 05/15/2002

TIME: 16:07:41

Input Set : A:\002201.txt

Output Set: N:\CRF3\05152002\I720933.raw

3 <110> APPLICANT: BURGER, Elisabeth Henriette  
 4 VAN NIEUW AMERONGEN, Arie  
 5 WUISMAN, Paulus Ignatius Jozef  
 7 <120> TITLE OF INVENTION: Bone Cement With Antimicrobial Peptides  
 9 <130> FILE REFERENCE: 702 002201  
 11 <140> CURRENT APPLICATION NUMBER: 09/720,933  
 12 <141> CURRENT FILING DATE: 1999-07-02  
 14 <150> PRIOR APPLICATION NUMBER: EP 98202233.7  
 15 <151> PRIOR FILING DATE: 1998-07-02  
 17 <160> NUMBER OF SEQ ID NOS: 16  
 19 <170> SOFTWARE: MS Word 97 SR-2  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 14  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Artificial Sequence  
 26 <220> FEATURE:

*pp 1-6*  
 Does Not Comply  
 Corrected Diskette Needed

Does Not Comply  
 Corrected Diskette Needed

27 <223> OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the other.

29 <400> SEQUENCE: 1  
 30 Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr  
 31 1 5 10

33 <210> SEQ ID NO: 2

34 <211> LENGTH: 14

35 <212> TYPE: PRT

36 <213> ORGANISM: Artificial Sequence

38 <220> FEATURE:

39 <223> OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the other.

41 <400> SEQUENCE: 2

42 Lys Arg Leu Phe Lys Glu Leu Leu Phe Ser Leu Arg Lys Tyr  
 43 1 5 10

45 <210> SEQ ID NO: 3

46 <211> LENGTH: 14

47 <212> TYPE: PRT

48 <213> ORGANISM: Artificial Sequence

50 <220> FEATURE:

51 <223> OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the other.

53 <400> SEQUENCE: 3

54 Lys Arg Leu Phe Lys Glu Leu Lys Lys Ser Leu Arg Lys Tyr  
 55 1 5 10

57 <210> SEQ ID NO: 4

58 <211> LENGTH: 14

59 <212> TYPE: PRT

*give source of  
 genetic material  
 (see item 11 on  
 Enr summary sheet)*

60 <213> ORGANISM: Artificial Sequence  
62 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/09/720,933

TIME: 16:07:41

Input Set : A:\002201.txt

Output Set: N:\CRF3\05152002\I720933.raw

other: 63 <223> OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the

65 &lt;400&gt; SEQUENCE: 4

66 Lys Arg Leu Phe Lys Glu Leu Leu Lys Ser Leu Arg Lys Tyr

67 1 5 10

69 &lt;210&gt; SEQ ID NO: 5

70 &lt;211&gt; LENGTH: 14

71 &lt;212&gt; TYPE: PRT

72 &lt;213&gt; ORGANISM: Artificial Sequence

74 &lt;220&gt; FEATURE:

other: 75 <223> OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the

77 &lt;220&gt; FEATURE:

78 &lt;221&gt; NAME/KEY: SITE

79 &lt;222&gt; LOCATION: 1

80 &lt;223&gt; OTHER INFORMATION: Orn

82 &lt;220&gt; FEATURE:

83 &lt;221&gt; NAME/KEY: SITE

84 &lt;222&gt; LOCATION: 2

85 &lt;223&gt; OTHER INFORMATION: Orn

87 &lt;220&gt; FEATURE:

88 &lt;221&gt; NAME/KEY: SITE

89 &lt;222&gt; LOCATION: 5

90 &lt;223&gt; OTHER INFORMATION: Orn

92 &lt;220&gt; FEATURE:

93 &lt;221&gt; NAME/KEY: SITE

94 &lt;222&gt; LOCATION: 8

95 &lt;223&gt; OTHER INFORMATION: Orn

97 &lt;220&gt; FEATURE:

98 &lt;221&gt; NAME/KEY: SITE

99 &lt;222&gt; LOCATION: 9

100 &lt;223&gt; OTHER INFORMATION: Orn

102 &lt;220&gt; FEATURE:

103 &lt;221&gt; NAME/KEY: SITE

104 &lt;222&gt; LOCATION: 12

105 &lt;223&gt; OTHER INFORMATION: Orn

107 &lt;220&gt; FEATURE:

108 &lt;221&gt; NAME/KEY: SITE

109 &lt;222&gt; LOCATION: 13

110 &lt;223&gt; OTHER INFORMATION: Orn

112 &lt;400&gt; SEQUENCE: 5

Q--> 113 Xaa Xaa Leu Phe Xaa Glu Leu Xaa Xaa Ser Leu Xaa Xaa Tyr

114 1 5 10

116 &lt;210&gt; SEQ ID NO: 6

117 &lt;211&gt; LENGTH: 14

118 &lt;212&gt; TYPE: PRT

119 &lt;213&gt; ORGANISM: Artificial Sequence

121 &lt;220&gt; FEATURE:

other: 122 <223> OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the

124 &lt;220&gt; FEATURE:

125 &lt;221&gt; NAME/KEY: SITE

## RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/09/720,933

TIME: 16:07:41

Input Set : A:\002201.txt

Output Set: N:\CRF3\05152002\I720933.raw

126 <222> LOCATION: 1  
 127 <223> OTHER INFORMATION: Orn  
 129 <220> FEATURE:  
 130 <221> NAME/KEY: SITE  
 131 <222> LOCATION: 2  
 132 <223> OTHER INFORMATION: Orn  
 134 <220> FEATURE:  
 135 <221> NAME/KEY: SITE  
 136 <222> LOCATION: 5  
 137 <223> OTHER INFORMATION: Orn  
 139 <220> FEATURE:  
 140 <221> NAME/KEY: SITE  
 141 <222> LOCATION: 9  
 142 <223> OTHER INFORMATION: Orn  
 144 <220> FEATURE:  
 145 <221> NAME/KEY: SITE  
 146 <222> LOCATION: 12  
 147 <223> OTHER INFORMATION: Orn  
 149 <220> FEATURE:  
 150 <221> NAME/KEY: SITE  
 151 <222> LOCATION: 13  
 152 <223> OTHER INFORMATION: Orn  
 154 <400> SEQUENCE: 6

W--&gt; 155 Xaa Xaa Leu Phe Xaa Glu Leu Leu Xaa Ser Leu Xaa Xaa Tyr

156 1 5 10

158 &lt;210&gt; SEQ ID NO: 7

159 &lt;211&gt; LENGTH: 14

160 &lt;212&gt; TYPE: PRT

161 &lt;213&gt; ORGANISM: Artificial Sequence

163 &lt;220&gt; FEATURE:

164 &lt;223&gt; OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the other.

166 &lt;400&gt; SEQUENCE: 7

167 Lys Arg Leu Phe Lys Lys Leu Lys Phe Ser Leu Arg Lys Tyr

168 1 5 10

170 &lt;210&gt; SEQ ID NO: 8

171 &lt;211&gt; LENGTH: 14

172 &lt;212&gt; TYPE: PRT

173 &lt;213&gt; ORGANISM: Artificial Sequence

175 &lt;220&gt; FEATURE:

176 &lt;223&gt; OTHER INFORMATION: Peptide is hydrophobic on one side and hydrophilic on the other.

178 &lt;400&gt; SEQUENCE: 8

179 Lys Arg Leu Phe Lys Lys Leu Leu Phe Ser Leu Arg Lys Tyr

180 1 5 10

182 &lt;210&gt; SEQ ID NO: 9

183 &lt;211&gt; LENGTH: 14

184 &lt;212&gt; TYPE: PRT

185 &lt;213&gt; ORGANISM: Artificial Sequence

187 &lt;220&gt; FEATURE:

188 &lt;223&gt; OTHER INFORMATION: Peptide is hydrophobic at one end and hydrophobic at the other.

## RAW SEQUENCE LISTING

DATE: 05/15/2002

PATENT APPLICATION: US/09/720,933

TIME: 16:07:41

Input Set : A:\002201.txt

Output Set: N:\CRF3\05152002\I720933.raw

190 <400> SEQUENCE: 9  
 191 Leu Leu Leu Phe Leu Leu Lys Lys Arg Lys Lys Arg Lys Tyr  
 192 1 5 10  
 194 <210> SEQ ID NO: 10  
 195 <211> LENGTH: 14  
 196 <212> TYPE: PRT  
 197 <213> ORGANISM: Artificial Sequence  
 199 <220> FEATURE:  
 200 <221> NAME/KEY: AMIDATION  
 201 <222> LOCATION: 14  
 202 <223> OTHER INFORMATION: C-Terminus is modified.  
 204 <400> SEQUENCE: 10  
 205 Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr  
 206 1 5 10  
 208 <210> SEQ ID NO: 11  
 209 <211> LENGTH: 14  
 210 <212> TYPE: PRT  
 211 <213> ORGANISM: Artificial Sequence  
 213 <220> FEATURE:  
 214 <221> NAME/KEY: AMIDATION  
 215 <222> LOCATION: 14  
 216 <223> OTHER INFORMATION: C-Terminus is modified.  
 218 <400> SEQUENCE: 11  
 219 Lys Arg Leu Phe Lys Glu Leu Leu Phe Ser Leu Arg Lys Tyr  
 220 1 5 10  
 222 <210> SEQ ID NO: 12  
 223 <211> LENGTH: 30  
 224 <212> TYPE: PRT  
 225 <213> ORGANISM: Artificial Sequence  
 227 <220> FEATURE:  
 228 <223> OTHER INFORMATION: Oligomer  
 230 <400> SEQUENCE: 12  
 231 Lys Arg Lys Phe His Glu Lys His His Ser His Arg Gly Tyr Cys Cys  
 232 1 5 10 15  
 233 Tyr Gly Arg His Ser His His Lys Glu His Phe Lys Arg Lys  
 234 20 25 30  
 236 <210> SEQ ID NO: 13  
 237 <211> LENGTH: 30  
 238 <212> TYPE: PRT  
 239 <213> ORGANISM: Artificial Sequence  
 241 <220> FEATURE:  
 242 <223> OTHER INFORMATION: Oligomer  
 244 <400> SEQUENCE: 13  
 245 Tyr Gly Arg His Ser His His Lys Glu His Phe Lys Arg Lys Cys Cys  
 246 1 5 10 15  
 247 Lys Arg Lys Phe His Glu Lys His His Ser His Arg Gly Tyr  
 248 20 25 30  
 250 <210> SEQ ID NO: 14  
 251 <211> LENGTH: 14

*no explanation given on  
 <223> line  
 (see item 11  
 on Enol  
 Summary sheet)*

*same enol*

*same*

*same*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/720,933

DATE: 05/15/2002

TIME: 16:07:41

Input Set : A:\002201.txt

Output Set: N:\CRF3\05152002\I720933.raw

252 <212> TYPE: PRT  
253 <213> ORGANISM: Artificial Sequence  
255 <220> FEATURE: *same*  
256 <221> NAME/KEY: MOD\_RES  
257 <222> LOCATION: 14  
258 <223> OTHER INFORMATION: Peptides linked by lysine-amide to form oligomer.  
260 <400> SEQUENCE: 14  
261 Lys Arg Lys Phe His Glu Lys His His Ser His Arg Gly Tyr  
262 1 5 10  
264 <210> SEQ ID NO: 15  
265 <211> LENGTH: 14  
266 <212> TYPE: PRT  
267 <213> ORGANISM: Artificial Sequence  
269 <220> FEATURE: *same*  
270 <221> NAME/KEY: MOD\_RES  
271 <222> LOCATION: 14  
272 <223> OTHER INFORMATION: Peptides linked by lysine-amide to form oligomer.  
274 <400> SEQUENCE: 15  
275 Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr  
276 1 5 10  
278 <210> SEQ ID NO: 16  
279 <211> LENGTH: 14  
280 <212> TYPE: PRT  
281 <213> ORGANISM: Artificial Sequence  
283 <220> FEATURE: *same*  
284 <221> NAME/KEY: MOD\_RES  
285 <222> LOCATION: 14  
286 <223> OTHER INFORMATION: Peptides linked by lysine-amide to form oligomer.  
288 <400> SEQUENCE: 16  
289 Lys Arg Leu Phe Lys Lys Leu Lys Phe Ser Leu Arg Lys Tyr  
290 1 5 10



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/720,933

DATE: 05/15/2002  
TIME: 16:07:42

Input Set : A:\002201.txt  
Output Set: N:\CRF3\05152002\I720933.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 1,2,5,8,9,12,13

Seq#:6; Xaa Pos. 1,2,5,9,12,13